PTO/SB/21 (08-03)

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TRANSMITTAL FORM

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Application Number	10/646,070
Filing Date	August 22, 2003
First Named Inventor	Michael W. GRAHAM
Art Unit	1636
Examiner Name	D. Sullivan
Attorney Docket Number	546322000303

ENCLOSURES (Check all that apply)						
Fee Transi	mittal Form	Drawing(s)	After Allowance Communication to Group			
Fee	Attached	Licensing-related Papers	Appeal Communication to Board of Appeals and Interferences			
Amendmer	nt/Reply	Petition	Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)			
After	Final	Petition to Convert to a Provisional Application	Proprietary Information			
Affida	avits/declaration(s)	Power of Attorney, Revocation Change of Correspondence Address	Status Letter			
Extension	of Time Request	Terminal Disclaimer	X Other Enclosure(s) (please identify below):			
Express At	pandonment Request	Request for Refund	1. Exhibit A (379 pages) 2. Exhibit B (20 pages)			
w/ Form P	n Disclosure Statement TO/SB/08a/b (7 pages) opy of Priority s)	CD, Number of CD(s)	3. Return Receipt Postcard			
	to Missing Parts/ Application	Remarks				
	oonse to Missing Parts or 37 CFR 1.52 or 1.53		•			
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT						
Firm or Individual name	MORRISON & FOERSTER LLP (Customer No. 20872) Michael R. Ward - Reg. No. 38,651					
Signature	MichaelfWone					
Date	February 11, 2005					

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PATENT Docket No. 546322000303

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Date of Deposit: February 11, 2005

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Leah Kjellen

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Michael W. GRAHAM et al.

Serial No.: 10/646,070

Filing Date: August 22, 2003

For: CONTROL OF GENE EXPRESSION

Examiner: D. Sullivan

Group Art Unit: 1636

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98

MAIL STOP: AMENDMENT Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents were previously submitted in an Information Disclosure Statement and/or Office Action, directed to the related application Serial Number US 09/646,807, filed December 5, 2000, and, accordingly, copies are not included herewith. This protocol conforms with 37 C.F.R. §1.98(d) and M.P.E.P. 609(A)(2). The Examiner is requested to make these documents of record in the application.

This application includes in its chain of priority U.S. application 09/100,812, now issued U.S. Patent 6,573,099. The Examiner's attention is directed to the preliminary amendment filed in US 2003/0056235 A1, which relates to U.S. Patent 6,573,099. U.S. Patent 6,573,099 is the subject of ongoing patent litigation: Benitec Australia Ltd. v. Nucleonics, Inc., Ambion, Inc., and GenScript, Inc., Civil Action No. 04-174 (JFF), U.S. District Court for the District of Delaware. As of February 2004, the litigation has been dismissed with respect to defendants Ambion, Inc. and GenScript, Inc. The litigation is ongoing with respect to Benitec Australia Ltd. and Nucleonics, Inc. The Judge in the ongoing litigation recently denied Nucleonics Inc.'s Motion to Dismiss under 271(e).

Applicants respectfully direct the attention of the Examiner to the titles of the 4548 references (without full copies of the references) attached to this Information Disclosure

Statement as Exhibit A. This list was provided to the Applicants by defendant Genscript, Inc. prior to Genscript's dismissal from the ongoing patent litigation suit. Applicants have not separately obtained or reviewed any of the 4548 references (even to confirm that the list actually sets out 4548 references), nor have they examined all of the titles, except to the extent that any of the references have already been in the possession of the Applicants (in which case such reference(s) would have been provided to the Examiner if material and not cumulative with references already provided). Applicants have no reason to believe that the references in the list are material to the claimed invention and have no reason to believe that, even if material, any of the references would not be cumulative in light of the over 270 references already submitted during the prosecution of this patent application, other than the submission by the defendant.

The Examiner is requested to review the enclosed list of references.

Applicants further direct the attention of the Examiner to the titles of the additional references (without full copies of the references) attached to this Information Disclosure Statement as Exhibit B. This list was provided to the Applicants by defendant Nucleonics, Inc.

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Application Serial No. 10/646,070

Docket No. 546322000303

in the litigation as art that Nucleonics, Inc. may rely on in the ongoing litigation. Applicants have not separately obtained or reviewed any of the references listed on Exhibit B, nor have they examined all of the titles, except to the extent that any of the references have already been in the possession of the Applicants (in which case such reference(s) would have been provided to the Examiner if material and not cumulative with references already provided). Applicants have no reason to believe that the references in the list are material to the claimed invention and have no reason to believe that, even if material, any of the references would not be cumulative in light of the over 270 references already submitted during the prosecution of this patent application, other than the submission by the defendant. The Examiner is requested to review the enclosed list of references.

sf-1870991 3

	This I	nformation Disclosure Statement is submitted:
	With t	he application; accordingly, no fee or separate requirements are required.
	Before	the mailing of a first Office Action after the filing of a Request for Continued
	Exami	nation under § 1.114. However, if applicable, a certification under 37 C.F.R. §
	1.97 (e)(1) has been provided.
\boxtimes	Withi	n three months of the application filing date or before mailing of a first Office
	Action	on the merits; accordingly, no fee or separate requirements are required.
	Howe	ver, if applicable, a certification under 37 C.F.R. § 1.97 (e)(1) has been
	provi	led.
	After	receipt of a first Office Action on the merits but before mailing of a final Office
	Action	or Notice of Allowance.
		A fee is required. A check in the amount of is enclosed.
		A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached
		to this submission in duplicate.
		A Certification under 37 C.F.R. § 1.97(e) is provided above; accordingly; no fee
		is believed to be due.
	After	mailing of a final Office Action or Notice of Allowance, but before payment of the
	issue f	ee.
		A Certification under 37 C.F.R. § 1.97(e) is provided above and a check in the
		amount of is enclosed.
		A Certification under 37 C.F.R. § 1.97(e) is provided above and a Fee Transmittal
		form (PTO/SB/17 is attached to this submission in duplicate.)

Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search

Application Serial No. 10/646,070

Docket No. 546322000303

has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal form is separated from this document and the Patent Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. § 1.17 (p)) is required, Applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing **546322000303**. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: February 11, 2005

Respectfully submitted,

Ву: _

Michael R. Ward

Registration No. 38,651

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San Francisco, California 94105-2482

Telephone: (415) 268-6237 Facsimile: (415) 268-7522

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of

	Complete if Known
Application Number	10/646,070
Filing Date	August 22, 2003
First Named Inventor	Michael W. GRAHAM
Art Unit	1636
Examiner Name	D. Sullivan
Attorney Docket Number	546322000303

	U.S. PATENT DOCUMENTS							
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where			
Initials*	No.1	Number-Kind Code ² (if known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear			
	AA	US 4,766,072	08-23-1988	Jendrisak et al.				
	AB	US 5,190,931	03-02-1993	Inouye				
	AC	US 5,208,149	05-04-1993	Inouye				
	AD	US 5,272,065	12-21-1993	Inouye et al.				
	AE	US 2003/0056235 A1 with amendments	03-20-2003	Fire et al.				
	AF	US 2004/0237145 A1	11-25-2004	Graham et al.				
	AG	US 2003/0159161 A1	08-21-2003	Graham et al.				
	AH	US 2004/0180439 A1	09-16-2004	Graham et al.				
	AI	US 2004/0266005 A1	12-30-2004	Graham et al.				

	FOREIGN PATENT DOCUMENTS							
Examiner	Cite	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines,			
Initials*	No.1	Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T ⁶		
	ВА	WO 97/44450	11-27-1997			П		
	BB	WO 03/022052	03-20-2003					
	ВС	WO 03/056012	07-10-2003					

^{*}EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

	NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²			
	CA	COHLI ET AL. (1994) "Inhibition of HIV-1 multiplication in a human CD4+ lymphocytic cell line expressing antisense and sense RNA molecules containing HIV-1 packaging signal and Rev response element(s)" Antisense Research and Development 4: 19-26.				
	СВ	FIRE ET AL. (1991) "Production of Antisense RNA Leads to Effective and Specific Inhibition of Gene Expression in C. Elegans Muscle" Development, 113(2): 503-514.				
	CC	FRASER ET AL. (1996) "Effects of c-myc first exons and 5" synthetic hairpins on RNA translation in oocytes and early embryos of Xenopus laevis" Oncogene 12(6):1223-30.				
	CD	Hungarian Patent Office Search Report mailed July 13, 2004, for Hungary patent application no. P0101225, 1 page.				
	CE	KIBLER ET AL. (1997) "Double Stranded RNA is a Trigger for Apoptosis in Vaccinia Virus Infected Cells" Journal of Virology, 71(3): 1992-2003.				
	CF	KNOESTER ET AL. (1997), "Modulation of Stress-Inducible Ethylene Biosynthesis by Sense and Antisense Gene Expression in Tobacco", Plant Science 126(2): 173-183.				

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Examiner	Da	ite	
Signature		nsidered	

Substitute for form 1449/PTO				Complete if Known		
				Application Number	10/646,070	
11	NFORMATION	V DI	SCLOSURE	Filing Date	August 22, 2003	
STATEMENT BY APPLICANT			APPLICANT	First Named Inventor	Michael W. GRAHAM	
				Art Unit	1636	
(Use as many sheets as necessary)		Examiner Name	D. Sullivan			
Sheet	2	of	2	Attorney Docket Number	546322000303	

CG	KOZAK (1989) "Circumstances and mechanisms of inhibition of translation by secondary structure in eucaryotic mRNAs" Mol. Cell. Biol. 9:5134-5142.				
СН	CH LIEBHABER ET AL. (1992) "Translation inhibition by an mRNA coding region secondary structure is determined by its proximity to the AUG initiation codon" J. Mol. Biol. 226:609-621.				
CI	LINGELBACH ET AL. (1988) "An extended RNA/RNA duplex structure within the coding region of mRNA does not block translational elongation" Nuc. Acids Res. 16 3405-3414.				
CJ	LOOMIS ET AL. (1991) "Antisense RNA inhibition of expression of a pair of tandemly repeated genes results in a delay in cell-cell adhesion in Dictyostelium" Antisense Res. Dev.1:255-260.				
СК	MIKOSHIBA ET AL. (1991) "Molecular biology of myelin basic protein: gene rearrangement and expression of anti-sense RNA in myelin-deficient mutants" Comp. Biochem. Physiol. 98:51-61.				
CL	OKANO ET AL. (1991) "Myelin basic protein gene and the function of antisense RNA in its repression in myelin-deficient mutant mouse" J. Neurochem. 56:560-567.				
СМ	PELLETIER ET AL. (1985) "Insertion mutagenesis to increase secondary structure within the 5' noncoding region of a eukaryotic mRNA reduces translational efficiency" Cell, 40:515-526.				
CN	PICCIN ET AL. (2001) "Efficient and Heritable Functional Knock-out of an Adult Phenotype in Drosophila using a GAL4-Driven Hairpin RNA Incorporating a Heterologous Spacer" <i>Nucleic Acids Research</i> , 29(12) E55:1-5.				
CO	SVOBODA, P. ET AL. (2001) "RNAi in Mouse Oocytes and Preimplantation Embryos: Effectiveness of Hairpin dsRNA" <i>Biochem Biophys Res Commun.</i> , 287(5): 1099-1104.				
CP					
CQ					

^{*}EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner Date Signature Considered			
Signature Considered	Examiner	Date	-
	Signature	Considered	

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.